

# FOLIO

University of Alberta

7 August 1986

## Public Affairs Office Wins National Prizes

At the recent annual meeting of the Canadian Council for the Advancement of Education (CCAEE), a trio of prizes was awarded the Office of Public Affairs (OPA).

A poster urging Library users to refrain from defacing books and bringing food into the Library was judged "Best Poster".

A submission detailing OPA's treatment of the writing competence issue took second prize in the category "Best demonstrated achievement in crisis management."

*Folio*, competing in the "Best tabloid or newspaper, for internal and/or external market", earned third prize.

There were 140 entries in 16 different categories.

CCAEE consists of the Canadian Association of University Development Officers (CAUDO), the Public Affairs Council for Education (PACE) and the Association of Canadian Alumni Administrators (ACAA). □

## Work of Special Initiatives Program Completed for Another Year

The Special Initiatives Program (nee the New Initiatives Program) is out of sight (until the next budget year) but not out of mind. Funds contained in the Program stood at about \$300,000; the Office of the Vice-President (Academic) received upwards of \$2.5 million in requests.

Amy Zelmer, Acting Vice-President (Academic), says the purpose of the Program is to provide a measure of flexibility in times of fiscal restraint. Smaller but nonetheless interesting ideas that might be overlooked in the larger budget picture receive due consideration.

For 1986-87 then, funding has been approved for the following initiatives:

- Graduate Services Program in Applied Statistics. The transfer of \$44,000 to the Department of Statistics and Applied Probability will support the establishment of a consultation program in applied statistics. R.D. Bercov, Acting Dean of Science, says the program will be established with current personnel and space on a "very modest basis"

during the 1986-87 academic year. He expects that a higher profile program will be in place for the 1987-88 year.

- Artificial Intelligence and Robotics. The sum of \$36,250 will help fund a new position in the field.

- Ceramics. The Faculty of Engineering will receive \$45,000 for the establishment of a new academic position at the associate professor level.

- Alberta Archeology. A new academic staff position is to be established in Alberta Archeology. The Department of Anthropology will receive \$33,500.

- Arabic/Hebrew Language Courses. The transfer of \$33,900 to the Department of Religious Studies will facilitate the setting up of a new continuing academic position in the teaching of the above languages. The Faculty of Arts is to fund the establishment of a similar continuing academic position in the other language.

- Public Policy/Public Administration. The Department of Political Science will receive \$18,000 to assist with the establishment of a new academic position in these areas. As well, the Faculty of Business will contribute \$12,000 to assist with the establishment of the position.

- Russian Studies. A total of \$7,850 will be directed to the Department of Slavic and East European Studies on a continuing basis to support a cooperative program with Dalhousie University for students studying Russian at our University.

- Swedish. The Department of Germanic Languages will receive \$15,000 on a continuing basis to support the provision of teaching of Swedish. Funds have also been received from a donor external to the University.

- Asia-Pacific Economics. The transfer of \$13,000 (1986-87), a further \$10,000 (1987-88) and a further \$10,000 (1988-89) to the

Department of Economics will support a new academic position.

- Follow-up Study, Status of Academic Women. Institutional Research and Planning will acquire \$20,000 to hire additional temporary staff (1986-87 only) to conduct more research.

- Fitness and Lifestyle Program. The position of coordinator will be supported on a regular basis, thanks to \$31,000 in "hard" funds

*Continued on page two*

## Contents

- Visitors' visas to the U.S.
- Genesis of a mural
- Summer smashes: softball and picnic
- Gold medal winners in Science



### Your Move

*They say two heads are better than one but when it comes to computers you either get the biggest there is or you get as many as you can. Jonathan Schaeffer (Computing Science), seen here with "Phoenix", his computer chess game, did exactly that and ended up in a first place tie at the recent World Computer Chess Championships in West Germany. Schaeffer "borrowed" 20 computers from Sun Microsystems in California, and each day of the five-day tournament he would "log in" from West Germany to California. There were 23 contestants, many of them from Europe. Each was required to make 40 moves in two hours with each chess game lasting four hours. The championships are held every three years and Schaeffer says he'll "be there in 1989."*

being transferred to the

Department of Athletic Services.

● Preliminary Planning and System Design UNIX Central Services. This initiative of Computing Services will receive \$27,000. Funds will be made available on a continuing basis beginning with the 1986-87 fiscal year. UNIX is an operating system developed by Bell Laboratories.

● Developing Computer Information Retrieval Skills: End-User Searching for Graduate Students. The allocations here are for demonstration time (\$2,100), staff training time (\$1,700) and search time for students (\$18,200). To assist the Library in the acquisitions battle, "soft" funds totalling \$100,000 will be made available on a one-time basis only for this year. □

## Dining Out

Housing and Food Services' annual picnic in the quad will be held on 13 August from 11:30 a.m. to 1:30 p.m. BBQ burgers, hot dogs, salad, dessert and beverages are on the menu and live music will be provided. Call 432-4411 for more information. □

# FOLIO

Volume Twenty-three  
Number Three

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Public Affairs produces *Folio*  
on a regular basis for the  
staff and other interested  
persons.



University  
of  
Alberta

### Deadlines:

**Notices of coming events:** 9 a.m. three weeks in advance of desired publication date.

**Classified advertisements:** 3 p.m. one week in advance of desired publication date. This date also serves as the deadline for cancellation of advertisements. Advertisements cost 30 cents per word with no discount for subsequent insertions. There is a maximum limit of 30 words and a minimum charge of \$1.50. Contributors' corrections will be assessed at \$1.50 for each line in which an insertion is made. Advertisements cannot be accepted over the telephone. All advertisements must be paid for in full at the time of their submission. **Display advertisements:** 3 p.m. one week in advance of desired publication date. Contact Public Affairs for sizes, rates and other particulars.

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ISSN 0015-5764  
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## A.W. Henry Celebrates Birthday Number 90

A.W. Henry's room in the Mackenzie Health Sciences Centre was rather congested on 20 July. The Emeritus Professor, formerly with the Department of Plant Science, turned 90 that day and former students, associates and friends were out in full force. The well wishers remembered Dr. Henry's contributions to our University and to the Province of Alberta in general.

A.W. Henry was born in Fredericton, New Brunswick. He earned his BSc degree in 1917 and an MSc degree in Agriculture in 1920 at the University of Saskatchewan. He was also awarded a travelling scholarship in Agriculture. After serving as Instructor in Field Husbandry at the University of Saskatchewan from May 1917 to September 1920, he moved to St. Paul, Minnesota, and obtained his PhD degree from the University of Minnesota in 1923. He worked as an assistant plant pathologist in the Agricultural Experiment Station, was an assistant professor at the University of Minnesota, and an agent in the Office of Cereal

Investigations of the USDA.

In 1926, Dr. Henry was awarded an International Education Board fellowship by the Rockefeller Foundation. He spent the winter at Cambridge University in England and the rest of the year on the continent, all the while establishing valuable contacts with European colleagues in plant pathology.

Dr. Henry accepted the position of Assistant Professor in our University's Department of Field Crops in 1927. This marked the beginning of the establishment of a chair in plant pathology at the University, a position he held until his retirement as professor in 1962. During this period, Dr. Henry was instrumental in elevating the University to the status of a primary centre in Canada for the training of plant pathologists. He was active in both applied and basic research which centred mainly on plant pathological problems associated with the seed and the soil.

In addition to serving on numerous federal and provincial committees and societies during his tenure of office, Dr. Henry was president or chairman of the Science Association of the University of Alberta, the Edmonton Branch of the Agricultural Institute of Canada, and the Canadian Phytopathological Society.

Since his formal 'retirement', Dr. Henry has been active in the Crop Clinic Laboratory of the Alberta Department of Agriculture in the area of general plant pathology and more recently in the area of soil microbiology, Department of Plant Science.

His outstanding abilities have been widely recognized and highly valued among his peers, says the department's C. Hiruki. In 1976, Dr. Henry received an Alberta Achievement Award for his excellence in Agricultural Education and Research. Four years later, he was given the Canadian

Phytopathological Society Award for outstanding research.

Dr. Henry is a member of the following professional societies: Agricultural Institute of Canada (Fellow), American Association for the Advancement of Science (Fellow), Canadian Phytopathological Society, American Phytopathological Society, Alberta Institute of Agrologists, Plant Pathology Society of Alberta, Sigma Xi, Gamma Sigma Delta and Alpha Zeta. □

## Audiovisual Office Cuts Lens Replacement Costs

The Audiovisual Office of the Division of Technical Services believes it has come up with a sensible solution to a problem that a number of Faculties face when looking at equipment costs.

Expensive projection lenses, when permanently mounted in theatres or classrooms, suffer from excessive wear and tear on the rack teeth due to fixed focal length. Until now, explains technician Peter McClure, a lens with such worn out teeth on its rack had to be discarded even though the optical functions were still good.

By combining the parts provided by one manufacturer with the original lens sold by another, then adding a bit of careful work and a dash of ingenuity, the Audiovisual Office has been able to cut its costs for lens replacement by 81 percent. As McClure says, multiply the saving by half a dozen lenses, and it starts to add up.

A-V technicians or users who are running into similar problems with their equipment are asked to call Derek Patten, 432-3923, or drop into the A-V Centre in the Humanities Centre. □

## da Silva in Charge of Mechanical Utilities

The Department of Physical Plant announces the appointment of A.A. da Silva to the position of Mechanical Utilities Manager. The position had been vacant due to the retirement of D.J. McCrank.

Mr. da Silva has considerable experience and training as Operations Manager for a number

of major specialized and commodity chemical plants. Most recently, he has been a significant contributor to the success of Physical Plant's Energy Management program as Systems Engineering Officer.

Mr. da Silva took up his new duties on 1 August. □

## Distinguished Scholarship of Trio of Science Students Rewarded

Each year, the Faculty of Science awards three gold medals to outstanding graduating students at Spring Convocation.

The Lieutenant-Governor's Gold Medal in Science was awarded to Heather C. Proctor as the graduating student from an Honours program who has shown the highest distinction in scholarship for the Class of 1986. The award crowns an outstanding record as an undergraduate. Proctor has won a number of other prizes and scholarships, including the Alberta Society of Professional Biologists' Scholarship in 1984 and 1985, the William Rowan Memorial Prize in 1985, the Louise McKinney Post-Secondary Scholarship in 1983, 1984 and 1985, and the Board of Governors' Prize in Science in 1985. She was also recently awarded the very prestigious 1986 Science and Engineering Scholarship, by the Natural Sciences and Engineering Research Council, for graduate studies.



Heather C. Proctor

The gold medalist plans to start a graduate program in Biology at the University of Calgary this autumn.

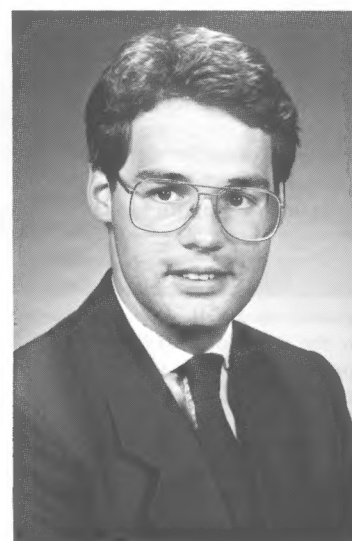
The Gold Medal in Science was awarded to Brendan Cormack as



Brendan Cormack

the graduating student from a Specialization program who has shown the highest distinction in scholarship for the Class of 1986. Academic honours are not new to Cormack. During the 1983-85 academic sessions, he was the recipient of six other awards, prizes and scholarships. What these honours do not indicate is his impressive breadth and depth of knowledge of the Arts and well as the Sciences. For example, one of the two honours that Cormack received in 1985 was the Blackley Long Prize in British History—an unusual achievement for a Science student.

He expects to enter the Harvard Medical School to carry out graduate work on the molecular structure of chromosome ends with the internationally-renowned scientist, J. Szostak. Cormack's interest and participation go far beyond the academic sphere. He is an avid collector of medieval coins and possesses an excellent collection of coins of the Mughal period from India. He has also been active in competitive rowing for



Thomas Hewlett

about three years and was a member of the crew that won the Canadian Rowing Championship in 1985.

The Dean's Gold Medal in Science was awarded to Thomas Hewlett as the graduating student from the General program who has shown the highest distinction in scholarship for the Class of 1986. Hewlett came to the University of Alberta from Hay River, NWT, in 1983 and enrolled in the Honours Physics Program. He was awarded the Jane-Ann Robertson Memorial Scholarship in Physics in the spring of 1984. The scholarship is awarded annually to the top student entering second year in Honours Physics. Hewlett received two other awards that year—the Board of Governors' Prize in Science and the President's Scholarship in Science.

After leaving Honours Physics at the end of the first term in 1984, he enrolled in the pre-med program where he continued to perform very well. As a result, he was awarded the Arthur Scroggie Scholarship. □

### Search Committee for Vice-President (Research)

The President is striking a Search Committee to select a Vice-President (Research) to replace Dr. Kaplan, whose term expires on 30 June 1987.

The composition of the Search Committee for Vice-President (Research) includes three members of the full-time faculty who do not hold administrative positions. Nominations for these positions are now being sought.

Written nominations supported by the signatures of five members of the full-time academic staff (not including the nominee) may be submitted to the Secretary to GFC, Ellen Solomon, 2-5 University Hall. Nominations must be received by Thursday, 4 September 1986, 4:30 p.m. Nominees must agree to stand for election to the Search Committee. GFC regulations require that nominees may not be holders of administrative positions, such as Dean or Department Chairman, since administrators are already represented on the Search Committee.

The full composition of the Search Committee for Vice-President (Research), together with nomination and election procedures, is contained in Section 102 of the GFC Policy Manual.

### Library Given \$500 by Epilepsy Foundation

The Edmonton Epilepsy Foundation has provided a grant of \$500 to the University Library for the purchase of materials to support research in epilepsy. The grant will be shared by the H.T. Coutts Library (Education) and the John W. Scott Health Sciences Library.

Normally, the Foundation supports actual research projects.

However, providing funds for library purchases will support many different projects, now and in the future. The grant will be used to obtain books and audio-visual materials related to epilepsy, in areas such as special education, teacher materials for in-class use, medical genetics, neuroscience, pediatrics, and rehabilitation. □

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## Geoffrey James Butler, 1944 - 1986

Geof Butler was born on 4 March 1944 in Gillingham, England. He grew up and received his early schooling in Bournemouth. In 1965, he earned a BSc (Special) degree and in 1969 his PhD, both at University College, London, England, the latter under the tutelage of C.A. Rogers.

In 1968, he came to the University of Alberta as a post-doctoral fellow, was appointed to the academic staff in 1971, promoted to Associate Professor in 1974 and Professor in 1980.

His research activities included convexity, ordinary differential equations, and modeling in population biology. He supervised three PhD students: J. Chapin, G.S.K. Wolkowicz and J. Roessler. His involvement with students included chairing the Canadian Mathematical Olympiad Committee and leading the Canadian team in

the International Mathematical Olympiad.

He has presented many papers in several continents. In 1982, he was awarded a McCalla Professorship for excellence in research. Just before his illness, he was appointed Chairman of the Mathematics Department.

Dr. Butler died on 13 July, peacefully in his sleep, only 70 days after being diagnosed as having cancer. He is sorely missed by those who knew and loved him, but his kind nature, his good thoughts and his marvelous ideas will be with us always.

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### Geoffrey James Butler Memorial Fund

The Mathematics Department wishes to announce the establishment of the Geoffrey James Butler Memorial Fund. Monies from the Fund will be used for student scholarships at all levels, as well as to fund the Geoffrey James Butler Memorial Lectures, the first of which will be given at a conference dedicated to

Dr. Butler during the summer of 1988 at the University of Alberta. Details of the conference will be announced in due course.

Tax deductible contributions payable to the University of Alberta should be sent to: H.I. Freedman, Mathematics Department, University of Alberta, Edmonton, Alberta T6G 2G1.□

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## Ballpark Figures Familiar

The Graduate Students' Association and the Students' Union have popped up and challenged the University Administration to a game of softball. The latter, being fiscally, er, physically fit, has accepted in no uncertain terms.

The World Serious will be contested on the Windsor Park diamond (there's no truth to the rumor that the Administration will use seniority to claim home field advantage).

On 12 August at 6 p.m., an intrepid arbiter will yell "Play Ball" and the action(?) will start. A trophy will be up for grabs and it is hoped that the game will become an annual event.

Since the GSA and the SU are organizing the game, their people will field any questions you may have. Call 432-2175 or 432-4236.□

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## Artist Overcomes Challenges to Create Outdoor Mural

**Before the artist's personal view of landscape could bring the human touch to a blank wall, much practical research was needed.**

What do an ultraviolet inhibitor and a structural engineering laboratory have in common?

The connecting link is the extensive and varied research that's gone into creating a huge, exterior mural, 138 feet wide and 64 feet high, that will express an artist's unique vision of our landscape.

This is the special project of Norman Yates, Professor of Art and Design.

Because Professor Yates's plan was to make the mural from a large number of separate panels, his first challenge was finding a suitable material. It had to be lightweight, but hardy enough to withstand Alberta's rigorous climate.

Surprisingly, his experiments showed that the ideal panel could be produced from a natural product, native to Western Canada.

B.C. Douglas Fir medium density plywood, overlaid with crezon (a patented surfacing), has a moisture-proof surface compatible with certain paints, long-term endurance, and is resistant to temperature change and wind and surface impact.

A major challenge for Yates was finding a fastening system that would provide maximum security

even at extremes of wind and surface pressure.

Architectural technologist Victor Fast produced the solution, devising a system (based on "z"-shaped metal channels) that, says Yates, "is marvelous in its simplicity and rightness for the purpose." The system fixes wall and panel firmly to each other, but allows a gap between them for pressure equalization and to allow for the rainscreen principle. Tested in a structural engineering laboratory, the system fasteners were still tight at 3,750 pounds of pull (more than three times the maximum pressure they'd been expected to withstand). And when half the fasteners were removed, it still took 1,500 pounds of pull before one popped.

Yates will use 204 panels, 8 feet x 4 feet x 11 mm., protecting the edges (a key issue in ensuring long life) with a system, combining alkyd and aluminum paint, that virtually plates them.

The panels will get another specially developed undercoat as well. In addition to being a further weather protection, this undercoat is chemically and mechanically related to the pigments, for good bonding.

Permanent pigments were particularly important to find, and color specialists have worked to create 23 pigments specially for the

project, all with built-in ultraviolet ray inhibitor. Yates's favorite yellow and red have had to be eliminated, but he is satisfied with their replacements. And the colors are, he says, "as permanent pigments as can be devised for exterior use."

After each panel is painted, a coat of specially-developed, ultraviolet-inhibiting varnish will be applied, to provide final protection.

A test panel has been on site (the gray north wall of Education North) since last December. Before putting it up, color saturation was measured to two decimal places with a high precision color meter. When the panel comes down, and before Yates starts on the long job of painting eight (he hopes) panels a day, the color will be measured again. If there's any deterioration, more varnish will be used for the final protection.

Yates will paint every panel himself—literally giving the building the human touch he feels is sometimes lacking in modern architecture. And his mural will reveal his particular vision of Canadian western landscape.

Yates sees open, unbounded space as the major feature of the landscape. To express this space, he has discarded the "window" view of landscape (a picture bounded by a frame), and has gone on to

"open-ended" modular structures, which he allows to grow in any direction and to any size.

The final size and dimensions of the mural are already settled. But Yates won't know exactly how he'll fill the space until he begins. Then, working on one panel, he will start to give shape and color to the energy and movement he feels in the landscape. "One panel generates another," he says, "and there's always a natural place to begin the next one."

Materials are being assembled and prepared now. Yates plans to start painting after Christmas, and hopes to finish the last panel by mid-August 1987. He expects erection of the mural to take two weeks. Panels will probably be placed on the wall from the top down, and a laser beam will be used to pinpoint levels.

Funding of \$45,000 for this project has come from Alberta sources connected with the University (the Emil Skarin Fund, the University/Community Special Projects Fund, Central Research Fund, President's Special Trust, Friends of the University, Alma Mater Fund) and from the Alberta Art Foundation.□

*This account of "West and North", the name Yates has chosen for the mural, made its debut in the May/June edition of Research Report.*

## Ozimek Appointed to Chair of Dairy Processing Technology Research

The Food Science Department is pleased to announce the appointment of Lech Ozimek to the newly created Chair of Dairy Processing Technology Research.

Dr. Ozimek, a native of Poland, obtained his master's and PhD degrees at the University of Agriculture and Technology in Olsztyn. Upon completion of his PhD in 1979, he accepted an appointment as Assistant Professor of Food Chemistry and Technology in the University's Institute of Food Engineering and Biotechnology.

In 1982, he came to our University's Department of Animal Science as a Visiting Scientist. Two years later, he accepted an appointment as a Research Associate.

The Chair in Dairy Processing Technology Research has been created and is funded jointly by the Alberta Dairymen's Association, Alberta Agriculture and the University of Alberta. The terms of reference for the chair include the

following responsibilities: Director of the Alberta Dairymen's Association Research Unit; establishment of a full research program in dairy processing technology; liaison and interaction with the Alberta dairy industry. □

## Satellite Video Conference Scheduled

A trip to the Alberta Research Council Auditorium on 24 September is just the ticket for anyone interested in in-process control for manufacturing. A video conference on same will be aired by the Institute of Electrical and Electronics Engineers, Inc. (IEEE)

Educational Activities Board. The program will be broadcast by satellite through an interactive network (one-way video, two-way radio) to sites in the United States, Canada and Mexico from 9 a.m. to 2 p.m. Mountain Time.

The video conference is available to universities, companies and IEEE-entity-sponsored locations.

Speakers will cover "The Concept of In-Process Control", "In-Process Control for Forming Processes", "Machine Vision in Industry", "In-Process Tool Sensing" and other topics.

The Calgary Council For Advanced Technology and the Edmonton Council For Advanced Technology are sponsoring sites for the video conference.

To obtain a brochure outlining the video conference schedule, telephone Alice Comartin, Director, Member Programs, ECAT, 428-9431. □

## Processing of Visitors' Visas to the United States

The following information has been received from Eva Cherniavsky, Administrative Officer (Academic Administration).

The Vice-Consul, Visa Section, of the United States Consulate General in Calgary recently contacted the Office of the Vice-President (Academic) with the request to publicize the following information.

The United States Consulate General receives frequent requests for immediate issuance of visitors' visas to the United States from University of Alberta staff and students. The Vice-Consul has advised that applicants should allow for a minimum of 20 days from the time they submit the application until the visa is issued. Added to this period must be sufficient time for mailing unless the request is submitted in person.

Notwithstanding the above, in many cases applicants may receive their visa on the same day if they apply in person at the Consulate. However, in certain cases (and there is no way of defining these instances) the 20-day waiting/processing period is a legal requirement and cannot be circumvented. It is therefore important that all applicants for U.S. visas allow for that minimum period of time.

It should be noted that this

minimum period applies to all kinds of visitors' visas—regardless as to the purpose of travel (e.g., conferences, personal visits, transits, visit to a Canadian Consulate in the United States, etc.).

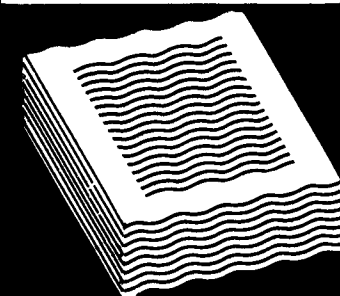
The Vice-Consul was most anxious to assure the Administration that consular staff are extremely concerned about assisting University staff and students in regard to obtaining visas. The Consulate will make every effort to meet certain deadlines for travel, conferences, etc., provided they do not conflict with the mandatory 20-day processing period.

Individuals who intend to apply for a visitors' visa to the United States are urged, therefore, to take this mandatory processing time into consideration when making travel plans.

Please note that Canadian citizens do not require visitors' visas to the United States. Citizens of other countries, if in doubt, should enquire at the U.S. Consulate or Embassy whether they are visa-exempt. Visa regulations do change from time to time and caution is recommended.

For ease of reference the address of the U.S. Consulate General is as follows: U.S. Consulate General, Room 1050, 615 MacLeod Trail, S.E., Calgary, Alberta T2G 4T8. □

## Currents



### Change of Department Name

The Department of Mineral Engineering is now the Department of Mining, Metallurgical and Petroleum Engineering.

The campus mailing address is still 606 Chemical-Mineral Engineering Building.

### 'Be Fit for Life - Fit Check'

The University's Fitness Unit will hold its third "Be Fit For Life" Fit Check program 11 to 13 August. The three-evening program (7 to 10 p.m.) will include a fitness and nutritional appraisal, counselling, seminars and facilitated exercise sessions. Results will be interpreted by certified fitness appraisers and a registered dietitian. Fee: \$75.

Rene Huellstrung (432-4435) has more information on the program.

### Seminar on Wills

Student Legal Services will conduct a public seminar on wills on 14 August. Discussion will range from the importance of writing a will and types of wills to choosing an executor and the role of the public trustee. The seminar will be held from 7 to 9 p.m. in 237 Law Centre. Telephone Student Legal Services, 432-2226, for free reservations.

## Veterinary Profession Act's Scope Includes University

The sheer volume and complexity of scientific research on animals combined with public concern about what goes on behind the scenes dictated that the veterinary profession assert itself. In essence, says David Secord, Director of the SMR Animal Centre on campus, veterinarians sought to establish veterinary standards concerning the use of animals in university-level research. The end result is *Veterinary Profession Act*, a piece of legislation given royal assent last March. The Act states that before research is done on an animal, the researcher must complete a form that states what he wants to do, why he wants to do it and how he intends to do it. An animal care committee, at least one member of which must be a registered veterinarian, then

approves, rejects or modifies the application.

Dr. Secord says that Alberta is the only province in Canada to have such legislation.

"Publicly stated policy holds that any research being performed on animals is being done with public funds. Therefore we have an obligation to the general public to explain how and why money is being spent. So it is that this University has an open door policy with the news media and the SPCA. The understanding is that Society personnel can drop in anytime unannounced as can government inspectors.

The legislation can't help but strengthen the University's research program, Dr. Secord says. □



## Talks

### Plant Science

11 August, 1 p.m. William L. Crosby, Plant Biotechnology Institute, National Research Council of Canada, Saskatoon, "Plant Molecular Biology Programs at the Plant Biotechnology Institute." 1-06 Agriculture-Forestry Centre.  
19 August, 6:30 to 8:30 p.m. Twilight Field Day for Bedding Plant Growers. Annual flower trials on display at Edmonton Research Station.

### Library Science

25 August, 1:30 p.m. Anna Altmann, School of Library and Information Science, University of Western Ontario, "Current Research in the Field of Children's and Young Adult Librarianship." 3-06 Rutherford South. Advance notice by telephone will be appreciated (432-4578).

## The Arts

### Ring House Gallery

Until 31 August. "Leslie Poole—Drawings."

### Beaver House Gallery

16 August to 20 September. "From Edmonton to Tokyo"—an exchange exhibition of printmaking students from the University of Alberta and the Tokyo National University of Fine Arts and Music.

### Edmonton Film Society

11 August, 8 p.m. The Hollywood Musical, "First Love" (1939). TL-11 Tory Lecture Theatre.  
18 August, 8 p.m. "Meet Me in St. Louis" (1944). TL-11 Tory Lecture Theatre.  
25 August, 8 p.m. "Has Anybody Seen My Gal?" (1952). TL-11 Tory Lecture Theatre.

## Broadcasts

### Radio

CJSR-FM 88.5, Campus Radio. Eclectic programming, including folk, jazz, new music, rock and U of A news and sports coverage. See *Airtight* magazine for full programming details. Send public service announcements to 224 SUB, 432-5244.

## Award Opportunities

### AOSTRA Pre-Doctoral Scholarships

**Donor:** Alberta Oil Sands Technology and Research Authority. **Where tenable:** University of Alberta. **Level:** Pre-doctoral. **Field:** Research related to the development of oil sands in Alberta. **Value:** \$12,000 with a small research allowance. **Number:** Variable. **Duration:** One year with the possibility of a one-year renewal. **Conditions:** To be awarded to outstanding students registered in or admissible to, graduate programs in fields of research related to the development of the oil sands in Alberta. **Closing date:** 15 February for awards tenable 1 May or 1 September, and 1 September for awards tenable on 1 January of the next year. **Further information and application forms should be requested from:** Student Awards Office, 252 Athabasca Hall, University of Alberta. Telephone: 432-3221.

### Provincial Mental Health Advisory Council

The Provincial Mental Health Advisory Council invites methodologically sound research proposals relating to all aspects of mental health illness, including the care of the chronically mentally ill.

The deadline for receipt of research proposals is 15 September 1986.

The deadline for submission of proposals by graduate students seeking research scholarships is 14 January 1987.

For guidelines governing these grants and an application form, contact: Executive Secretary, Research Committee, Provincial Mental Health Advisory Council, 8th Floor, Seventh Street Plaza, 10030 107 Street, Edmonton, Alberta T5J 3E4. Telephone: 427-2813.

### Scholarship in Hungarian Studies

The Student Awards Office is accepting submissions for the 1985-86 Scholarship in Hungarian Studies (\$500). Details from the Awards Office, 252 Athabasca Hall.

## Surplus Equipment

The equipment appearing in this column is available only to University departments with University-administered funds. For more information, telephone Jody Brookwell or Roy Bennett, 432-3208.

Wanted: (3) Microfiche Readers  
Carmen Michaud, International Student Centre, 432-5950.

For Sale: (1) IBM 3287 Line Printer  
(2) Telex 287-C Line Printers.  
All in good condition. Janet Denford or Bruce Mullen, 432-4180/3847.  
Standard I/O card for IBM PC, C/W serial and parallel ports and clock/calendar  
Ron Fairweather, Materials Management, 432-5393.

## Positions

The University of Alberta is committed to the principle of equal opportunity in employment and encourages applications from all qualified people.

In accordance with Canadian Immigration requirements, these advertisements are directed to Canadian citizens and permanent residents.

### Reference Librarian

The University of Alberta Library invites applications for a Health Sciences Reference Librarian with specialization in nursing. The incumbent reports to the Health Sciences Reference and Collections Coordinators and is responsible for the expansion of library services in nursing, which includes: library instruction, on-line data base searching, reference work, liaison and collection development.

The successful candidate will have a degree in Library Science in addition to a background in nursing or allied health. Library experience, including instruction, reference and on-line searching preferred.

This is a two-year term position, which will be filled at a Librarian 1 level. The current salary range is \$25,792 to \$32,582.

Candidates should send a curriculum vitae, transcripts of academic records and the names of three references by 1 September 1986 to: J. Teskey, Personnel Officer, Cameron Library, University of Alberta, Edmonton, Alberta T6G 2J8.

### Non-Academic

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall, telephone 432-5201. These vacancies cannot be guaranteed beyond the date of publication.

Bookstore Clerk, Bookstore, (\$1,109-\$1,371)  
Senior Clerk, Comptroller (Payroll), (\$1,190-\$1,478)  
Clerk Typist II, Romance Languages, (\$1,190-\$1,478)  
Clerk Typist II (Part-time), Medical Laboratory Science, (\$833-\$1,035)  
Switchboard Operator, Physical Plant, (\$1,235-\$1,534)  
Clerk Steno III, Faculty of Business, (\$1,326-\$1,666)  
Clerk Steno III, Educational Foundations, (\$1,326-\$1,666)  
Clerk Steno III, Secondary Education, (\$1,326-\$1,666)  
Clerk Steno III, Mining, Metallurgical and Petroleum Engineering, (\$1,326-\$1,666)  
Clerk Steno III, Physics, (\$1,326-\$1,666)  
Clerk Steno III, Comparative Literature, (\$1,326-\$1,666)  
Clerk Steno III, Office of the Registrar, (\$1,326-\$1,666)  
Clerk Steno III (Trust, Term to 30 June 1987), McLaughlin Centre, (\$1,326-\$1,666)  
Clerk Typist III (Trust), Dean of Dentistry, (\$1,326-\$1,666)  
Clerk Typist III (Temporary to November 1986), Field Services, (\$1,326-\$1,666)  
Clerk Typist III, Office of the Registrar, (\$1,326-\$1,666)  
Purchasing Clerk II, Materials Management, (\$1,326-\$1,666)  
Secretary (Term to 31 May 1987), Dean of Education, (\$1,478-\$1,888)  
Secretary, Medical Laboratory Science, (\$1,478-\$1,888)  
Secretary, Equity Office, (\$1,478-\$1,888)  
Secretary (Trust), Faculty of Medicine, (\$1,478-\$1,888)  
Secretary (Trust), Pharmacology, (\$1,478-\$1,888)  
Medical Steno, Medicine, (\$1,478-\$1,888)  
Senior Accounts Clerk, Planning and Development, (\$1,666-\$2,144)  
Departmental/Executive Secretary, Native Student Services, (\$1,666-\$2,144)  
Photographer I/II (Part-Time Term), Instructional Technology Centre (\$700-\$1,000)  
Animal Assistant I, Provincial Laboratory, (\$1,190-\$1,478)  
Building Services Worker II, Housing and Food Services, (\$1,326-\$1,666)  
Storeman I (40 hours/week, Recurring Term), Housing and Food Services, (\$1,411-\$1,753)  
Biochemistry Technician II (Trust), Biochemistry, (\$1,739-\$2,237)  
Administrative Assistant I, Office of the Comptroller, (\$1,739-\$2,237)  
Technologist I (Trust), Zoology, (\$1,888-\$2,437)  
Electronics Technician III, Electrical

Engineering, (\$2,053-\$2,661)  
Senior Coordinator I, Faculté Saint-Jean, (\$2,053-\$2,661)  
Technologist II, Genetics, (\$2,053-\$2,661)  
Public Relations/Publications Assistant III, Office of Public Affairs, (\$2,053-\$2,661)

For vacant Library positions, please contact the Library Personnel Office, Basement, Cameron Library, 432-3339.

## Advertisements

### Accommodations available

Exchange - For one year, starting August or September, furnished luxury two-bedroom condo for quality accommodations in any Vancouver area. Phone (403) 482-3330 or 967-3034 weekends.

Rent - 108 Street and University Avenue, one-bedroom suite. Clean, quiet. \$450. 433-6024.

Sale - Parkallen. New listing. Renovated, upgraded, four bedrooms. Patio doors off dining room, cedar deck. Suite down. \$85,000. Call Joyce Byrne, 435-6064, 436-5250. Spencer exclusive.

Sale - Quiet and private, beautiful treed acreage in Whispering Pines, west of Edmonton. Over 1,800 sq. ft., four bedrooms, two storeys, only \$107,500. Bob Morrison, 962-4950. Royal LePage Real Estate.

Sale - Windsor, three bedrooms, fully developed basement, two baths, hardwood floors, carpeting, large fenced yard, double garage with openers, gas barbecue, covered patio. 432-7745 daytime or 7:30-9:30 p.m.

For Sale - House, by owner.

Saskatchewan Drive. Four bedrooms, den, three bathrooms. Fully developed downstairs. Two fireplaces. Double garage. Large fenced lot with mature trees. Call Doug at 438-4500.

Sale - new listing, jewel in Parkallen. Sparkling one owner bungalow, mint condition, upgraded kitchen, formal dining room, double garage, \$83,900. Call Joyce Byrne, 435-6064, 436-5250, Spencer's.

Sale - Won't last. Parkallen. Quiet tree-lined street. Three bedrooms, semi, eat in kitchen, deck. Four appliances, \$55,500. Call Joyce Byrne, 435-6064, 436-5250. Spencer's.

For Sale - by owner. Lansdowne, well-built, 2500', five bedrooms, finished basement. Two fireplaces. Balcony outdoor barbecue fireplace. Professionally landscaped. Quiet neighborhood, close to school, daycare. 435-6518.

Sale - Windsor Park, ideal University location, spacious, immaculate, well-maintained bungalow, large, beautifully landscaped lot, mature trees, priced for quick sale. Sheila Labelle, 432-1378, 430-6303. Bennett Realty.

Sale - Parkallen. Three-bedroom semi-bungalow, 2 1/2 baths. Basement

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development, single garage, mature landscaping, recently updated. \$92,000. 436-4870.

Share - Comfortable home for mature student/professional, non-smoker. Convenient for University. Reasonable rent, available early September-April. 733 (days), 455-0620 (evenings).

For - Offices of various sizes in professional single-storey building, near University of Alberta. Full services, furniture, ample free parking available. 438-1978, 436-4622.

Sale - Saskatchewan Drive, new listing. Panoramic valley view, south backyard. Architecturally designed addition enhances handsome 2,600'. Two storeys. Ask for Pat von Borstel, 436-5250, Spencer's, 437-6540.

Sale - Grandview, super crescent location. Terrific all new kitchen. Main floor family room opens to private backyard. Four bedrooms. No sign. Ask for Pat von Borstel, 436-5250, Spencer's, 437-6540.

Rent - Bright, cheerful, two-bedroom home, four appliances, fully carpeted. Near University. \$760 month. Available 24 August, appointment: 433-9104.

Sale - Half acre of view on Vancouver Is. Five-minute drive from Comox. Five-minute walk from water. Asking price is \$15,500. Please call 5986 and ask for Masako Walley.

Sacrifice Sale - Southwest's best home value. 1,250 sq. ft. bungalow, developed basement. Excellent potential for suite. 3/4 block off campus, bus route. Only \$69,900. Call Robert Kully, LePage's, 437-7480, 437-5364.

Sale - Grandview Drive, pretty, traditional, 2,400 sq. ft. traditional two-storey, large lot, south back yard. Call Evan Potter, 428-1699, pager, 553, Potter Realty.

Sale - Large river valley lot in Riverbend, secluded, private, no traffic. Price reduced to \$98,500. Country atmosphere in city. Call Evan Potter, 428-1699, pager; 450-6553, Potter Realty.

Rent - Charming older house, north side, 20-minutes University, one large bedroom, fireplace, hardwood floors; treed, fenced yard; garage. Pets

welcome. Phone 462-4926 anytime.

Rent - 11013 University Avenue, 1 September, three-bedroom, upper duplex house, four appliances, quiet professional couple, non-smoker. References. \$650/month plus utility. 475-1210.

Share - Three-bedroom condo in St. Albert. Secluded area on bus route and near to other University personnel. Furnished and ready to move in. \$350/month. Non-smoker, Jack, 458-5763.

For rent - Large house near University. Suitable for doctor/visiting professor. \$700 a month plus utilities. 436-2488.

Sale - 50.4 scenic forested acres, including one mile Pembina riverfront, 16-foot propane/electric trailer and cedar-sided cabin overlooking river. Undamaged, ideal get-away, 1 1/2 hours north of Edmonton, near Fawcett. 459-2937 evenings.

For Sale - House by owner, 10449 87 Avenue. Two storeys, full basement, seven rooms, three bedrooms. \$89,900. To view, call 439-9565.

Rent - Fully furnished home, from 1 November to 1 April. Leduc. Older married couple preferred, no pets or children. \$500. 986-1638.

Sale - Hampton Village loft unit. \$79,900; Garneau handyman, two-storey, \$71,500; McKernan, semi-bungalow, \$79,500. Luana Houston, 434-5372, 437-7480, Royal LePage.

For Rent - 11240 77 Avenue, three-bedroom, \$750/month. Available 1 September. Married couple. No pets. 436-7248.

Rent - Owners transferred, nine months. Beautiful, 4,000 sq. ft. Victorian home on eight acres, three miles S.E. of Edmonton. Non-smokers, 467-1779, 435-1756.

Sale - Four-bedroom cabin on north shore of Lake Wabamun. Clear title, \$75,000. 1-924-2464.

Sale - By owner, quality Lendrum bungalow. Fireplace, 1 1/2 baths, deck, skylight, central vacuum system, double heated garage. Close to University, schools, shopping. 434-5459 after 5 p.m.

Sale - Belgravia, new listing. Short walk

to University. Well-maintained bungalow. Hardwood floors. Exposure offers good light all day. Attractive mature landscaping. Garden area. Florence Thompson, Spencer's, 436-5250, 436-6833.

Sale - Windsor Park, big lot 50x 50, nicely treed. Reduced to \$95,000. Renovate or build your own home. Pat von Borstel, 437-6540, Spencer's, 436-5250.

Sale - Nine city lots. \$39,750 up. Windermere area. Call Chris Tenove, 433-5664, 436-5250, Spencer's.

Sale - Grandview. Immaculate 2,400' executive home. Four bedrooms, spacious and bright. Call Chris Tenove, 433-5664, 436-5250, Spencer's.

Sale - Riverbend. 1,980' attractive, immaculate home. Large kitchen. Cozy family room, terrific yard, quiet location. Must sell. Transferred to Ontario. Chris Tenove, 436-5250, 433-5664, Spencer's.

Sale - Windsor Park, 1,548' bungalow, large kitchen, patio doors to cedar deck, two fireplaces, main floor laundry. Super 75'x150' landscaped lot. Walk to University. Chris Tenove, 436-5250, 433-5664, Spencer's.

Sale - Windsor Park, new listing. Bungalow, fully developed, hardwood floors, large kitchen, great University location. Chris Tenove, 433-5664, 436-5250, Spencer's.

Sale - Duggan, \$95,000. Attractive home. Attached garage, large south yard. Immediate possession. Call Chris Tenove, 433-5664, 436-5250, Spencer's.

Sale - Lakefront, Wabamun north shore. 100', private beach, winterized cottage, nicely treed large lot. Call Chris Tenove, 433-5664, 436-5250, Spencer's.

Sale - 160 acres, \$25,900, relaxing

hideaway. Offers. Chris Tenove, 436-5250, 433-5664, Spencer's.

#### Accommodations wanted

Responsible graduate nurse seeking residency with senior person(s) in exchange for light house work and/or nursing care. Call Rosemarie at 458-1432 between 4-6 p.m.

House Sitter - Mature hospital professional available to house sit for

six months or more. References available. Call Sherri, 453-2807.

#### Automobiles and others

1984 Nissan Micra hatchback 1,200cc. 42,000km. AM/FM. Well maintained, \$5,500 or best offer. Ext. 2824 or 439-6808.

Volvo stationwagon 1974. One owner. 118,500 miles. Trailer hitch. Roof carrier. Fuel injection. \$1,999. 432-2828 day, 436-9398 evenings.

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Toyota Corolla 1982. Outstanding condition, one lady owner. Five-door, low mileage, must sell, moving. \$6,800 o.b.o. 432-2942, 439-8099.

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Kimball piano with bench, walnut finish, excellent condition, \$2,500. or best offer. Call 439-3518, 430-6346.  
New IBM Quietwriter typewriter: 2 fonts resident - switch between regular/italic, regular/scientific, multilanguages without changing printwheels; doublesize print for headings, transparencies. Discounted below list price. Mark 9, 432-7936.  
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Hospital and Community Daycare Association is accepting registrations for summer and fall 1986. Location: On campus near hospital. For information: 433-9663.

Experienced architect: Will do renovation/new home designs. Call 973-3198 (local).

Babysitter required, own home, for one year old, non-smoker. References. 15 hours per week. Phone 432-1079.

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## Business Certificate Programmes

The Faculty of Extension offers part-time Business Certificate Citation Programmes for those individuals who wish to broaden their outlook and develop their capacity for increased responsibility. Each programme is comprised of a series of courses and will require one to three years of intensive study. Registrations are now being accepted for the Fall 1986 term.

To receive a calendar with complete information on the following Certificate and Citation programmes, please call 432-5545 or 432-3027.

Management Development  
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*It's Time for the Annual*

### Picnic in Quad

Wednesday, August 13th, 1986

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